AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 (Original) An exhaust gas purifying apparatus for purifying exhaust gas by bringing the exhaust gas into contact with liquid catalyst and solid catalyst, comprising an apparatus body having a liquid reservoir chamber where the liquid catalyst is reserved, a solid catalyst chamber where the solid catalyst is arranged and a cooling mechanism for cooling the liquid catalyst, wherein said cooling mechanism controls a temperature of the liquid catalyst so that up-and-down shift of a liquid level of the liquid catalyst in the liquid reservoir chamber is prevented as much as possible.

Claim 2 (Original) An exhaust gas purifying apparatus for purifying exhaust gas by bringing the exhaust gas into contact with liquid catalyst and solid catalyst, comprising an apparatus body having a liquid reservoir chamber where the liquid catalyst is reserved, a solid catalyst chamber where the solid catalyst is arranged and a cooling mechanism for maintaining the liquid catalyst in the liquid reservoir chamber to a temperature not higher than 50°C.

Claim 3 (Original) The exhaust gas purifying apparatus according to claim 1, wherein said cooling mechanism is adapted to keep the liquid catalyst in the liquid reservoir chamber in the range of 40 to 50°C as much as possible when the exhaust gas passes through the liquid reservoir chamber.

Claim 4 (Original) The exhaust gas purifying apparatus according to claim 2, wherein said cooling mechanism is adapted to keep the liquid catalyst in the liquid reservoir chamber in the range of 40 to 50°C as much as possible when the exhaust gas passes through the liquid reservoir chamber.

Claim 5 (Currently amended) The exhaust gas purifying apparatus according to any-one of elaims 1 to 4 claim 1, wherein a cooler using at least one of a heat pipe, a fin or a cooling medium is used as the cooling mechanism.

Claim 6 (Currently amended) The exhaust gas purifying apparatus according to any one of elaims 1 to 4 claim 1, wherein a cooling device that exhibits a cooling effect by a heat pipe and electric supply is used as the cooling mechanism.

Claim 7 (Currently amended) The exhaust -as purifying apparatus according to any one of elaims 1 to 4 claim 1, wherein a solid catalyst chamber having such a structure that a plurality of partial chambers are formed together, a solid catalyst plate is provided in each partial chamber, and the exhaust gas passes through each partial chamber in order and is in contact with the solid catalyst plate of each partial chamber is used as said solid catalyst chamber.

Claim 8 (Original) The exhaust gas purifying apparatus according to claim 5, wherein a solid catalyst chamber having such a structure that a plurality of partial chambers are formed together, a solid catalyst plate is provided in each partial chamber, and the exhaust gas passes through each partial chamber in order and is in contact with the solid catalyst plate of each partial chamber is used as said solid catalyst chamber.

Claim 9 (Original) The exhaust gas purifying apparatus according to claim 6, wherein a solid catalyst chamber having such a structure that a plurality of partial chambers are formed together, a solid catalyst plate is provided in each partial chamber, and the exhaust gas passes through each partial chamber in order and is in contact with the solid catalyst plate of each partial chamber is used as said solid catalyst chamber.

Claim 10 (Original) The exhaust gas purifying apparatus according to claim 7, wherein at least two solid catalyst plates are provided in each partial chamber.

Claim 11 (Original) The exhaust gas purifying apparatus according to claim 8, wherein at least two solid catalyst plates are provided in each partial chamber.

Claim 12 (Original) The exhaust gas purifying apparatus according to claim 9, wherein at least two solid catalyst plates are provided in each partial chamber.

Claim 13 (Original) An exhaust gas purifying apparatus for purifying exhaust gas by bringing the exhaust gas into contact with liquid catalyst and solid catalyst, comprising an apparatus body having a liquid reservoir chamber where the liquid catalyst is reserved and a solid catalyst chamber where the solid catalyst is arranged, wherein said solid catalyst chamber is composed of a plurality of partial chambers together, at least two solid catalyst plates are provided in each partial chamber, and the exhaust gas pass through each partial chamber in order and is in contact with the solid catalyst plates of each partial chamber.

Claim 14 (Currently amended) The exhaust gas purifying apparatus according to any one of elaims 1 to 4 claim 1, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 15 (Original) The exhaust gas purifying apparatus according to claim 5, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 16 (Original) The exhaust gas purifying apparatus according to claim 6, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 17 (Original) The exhaust gas purifying apparatus according to claim 7, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 18 (Original) The exhaust gas purifying apparatus according to claim 8, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 19 (Original) The exhaust gas purifying apparatus according to claim 9, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 20 (Original) The exhaust gas purifying apparatus according to claim 10, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 21 (Original) The exhaust gas purifying apparatus according to claim 11, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 22 (Original) The exhaust gas purifying apparatus according to claim 12, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 23 (Original) The exhaust gas purifying apparatus according to claim 13, wherein an introduction portion for introducing the exhaust gas to the liquid catalyst, and an atomizing mechanism for atomizing the exhaust gas introduced into the liquid reservoir chamber from the introduction portion are provided in the liquid reservoir chamber.

Claim 24 (Original) The exhaust gas purifying apparatus according to claim 14, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and atomized by the small holes is used as said atomizing mechanism.

Claim 25 (Original) The exhaust gas purifying apparatus according to claim 15, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and atomized by the small holes is used as said atomizing mechanism.

Claim 26 (Original) The exhaust gas purifying apparatus according to claim 16, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and atomized by the small holes is used as said atomizing mechanism.

Claim 27 (Original) The exhaust gas purifying apparatus according to claim 17, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and atomized by the small holes is used as said atomizing mechanism.

Claim 28 (Original) The exhaust gas purifying apparatus according to claim 18, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and atomized by the small holes is used as said atomizing, mechanism.

Claim 29 (Original) The exhaust gas purifying apparatus according to claim 19, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and

atomized by the small holes is used as said atomizincy mechanism.

Claim 30 (Original) The exhaust gas purifying apparatus according to claim 20, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and

atomized by the small holes is used as said atomizing mechanism.

Claim 31 (Original) The exhaust gas purifying apparatus according to claim 21, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and

atomized by the small holes is used as said atomizing mechanism.

Claim 32 (Original) The exhaust gas purifying apparatus according to claim 22, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and

atomized by the small holes is used as said atomizing mechanism.

Claim 33 (Original) The exhaust gas purifying apparatus according to claim 23, wherein an atomizing mechanism where the exhaust gas passing through a member provided with a plurality of small holes juxtaposed in an up-and-down direction of the liquid reservoir chamber and

atomized by the small holes is used as said atomizing mechanism.

7